

Area SILVER SEAS YACHTS [BRANDON] Machine Id KOHLER SGM32LJR9 Component Genset Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		VPA052331	VPA034700	
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		15 Apr 2024	22 Jun 2020	
	Machine Age	hrs	Client Info		167	100	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Not Changd	
	Filter Changed		Client Info		N/A	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		1	4	
	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm	ASTM D5185m	>2	0	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		<1	<1	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		<1	1	
	Tin	ppm	ASTM D5185m	>15	<1	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	7	
CONTAMINATION	Potassium	ppm	ASTM D5185m		<1	2	
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	,	NEG	NEG	
	Soot %	%	*ASTM D7844		0	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	4.6	5	
	Sulfation	Abs/.1mm	*ASTM D7415		17.7	19.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	0	7	
The DNI regult indicates that there is suitable ellipticity remaining in the	Boron	ppm	ASTM D5185m	250	14	10	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	
	Molybdenum	ppm	ASTM D5185m	100	49	62	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	450	973	1085	
	Calcium	ppm	ASTM D5185m	3000	1110	1094	
	Phosphorus	ppm	ASTM D5185m	1150	942	1104	
	Zinc	ppm	ASTM D5185m	1350	1233	1218	
	Sulfur	ppm	ASTM D5185m	4250	4123	3004	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	14.8	
	D 1 1 (D 1)	L/OL/	LOTH DOGS	0 -			

Base Number (BN) mg KOH/g ASTM D2896 8.5

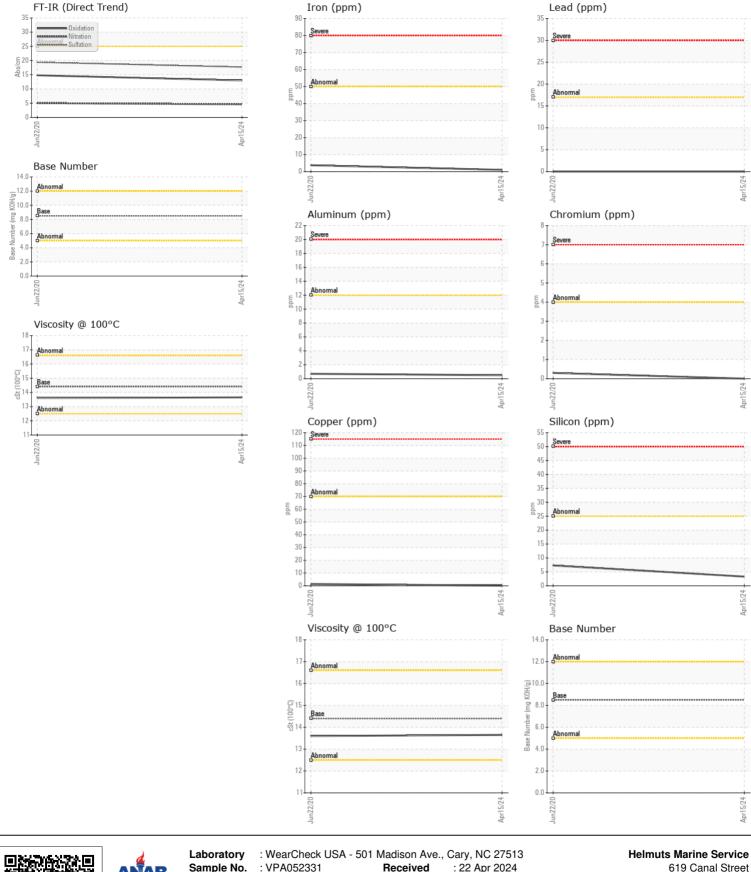
ASTM D445 14.4

Visc @ 100°C cSt

13.6

9.8

13.65



Sample No. Received 619 Canal Street : VPA052331 : 22 Apr 2024 Lab Number : 06156581 Tested SAN RAFAEL, CA : 22 Apr 2024 Unique Number : 10992004 Diagnosed : 22 Apr 2024 - Doug Bogart US 94901-3545 Test Package : MOB 1 (Additional Tests: TBN) Contact: NADINE URCIUOLI Certificate L2367 SERVICE@HELMUTSMARINE.COM To discuss this sample report, contact Customer Service at 1-800-237-1369. T: x: * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x: